

Appl. No. 10/025,272  
Amendment Dated December 31, 2003  
Reply to Office Action mailed October 2, 2003

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-8 (previously canceled)

Claim 9 (currently amended): A kit ~~containing one or more crystallizing agents~~ for visualizing cellular organelles and/or cytoskeletons [[,]] of cells in tissue or in cell suspension comprising a formulation comprising at least one tetrazolium salt and a pharmaceutically acceptable carrier medium selected from the group consisting of culture medium, emulsifying agent and pH buffering agent.

Claim 10 (original): A kit of claim 9, wherein said cellular organelle and/or cytoskeleton is selected from the group consisting of mitochondrion, chromosomes, nucleosome, chromatin, nuclei, nuclear matrix, nuclear lamina, core filaments, nuclear envelope, nuclear pore complexes, nuclear membranes, centromere, centrosome, centrioles, pericentriolar material, pericentrins, mitotic spindle, spindle pole bodies, contractile rings, kinetochore, proteasomes, telomere, plasma membranes, Golgi complexes, Golgi apparatus, endoplasmic reticulum, endosomes, peroxisomes, phagosomes, ribosomes, membrane skeleton, microvilli, cilia, flagella, microfilaments, actin filaments, microtubules, contractile ring, and intermediate filaments.

Claim 11 (currently amended): A kit of claim 9, wherein the ~~crystallizing agent is one or more tetrazolium salts~~ kit further comprises an inhibitor of succinate dehydrogenase.

Claim 12 (currently amended): A kit of claim 9, wherein said crystallizing agent is selected from the group consisting of p-Anisyl Blue Tetrazolium Chloride, p-Anisyl-p-Nitro Blue Tetrazolium Chloride, Thiazolyl blue (2'-2'-Benzothiazolyl-5-styryl-3-(4'-phthalhydrazidyl) tetrazolium chloride), Blue tetrazolium chloride, 2-(2'-Benzothiazolyl)-5-styryl-3-(4'-phthalhydrazidyl)-tetrazolium chloride, 5-Cyano-2,3-ditolyl tetrazolium chloride), [3-(4,5-Dimethylthiazol-2-yl)-2,5-

diphenyl]tetrazolium Bromide, 1-[4,5-dimethylthiazol-2-yl]-2,5-diphenyltetrazolium bromide, Distyryl nitroblue tetrazolium chloride, (1H)-tetrazole, Iodonitrotetrazolium chloride, Iodo Nitro Tetrazolium Violet Chloride, p-iodo nitrotetrazolium violet, (2-(4-iodophenyl)-3-(4-nitrophenyl)-5-phenyltetrazolium chloride, 2-(p-iodophenyl)-p-nitrophenyl-5-phenyltetrazolium chloride, m-Nitro Blue Tetrazolium Chloride, m-Nitro Neotetrazolium Chloride, 2,2-bis(2-methoxyl-4-nitro-5-sulfophenyl)-2H-tetrazolium-5-carboxanilide, 3-(4,5-dimethylthiazol-2-yl)-5-(3-carboxymethoxyphenyl)-2-(4-sulfophenyl)-2H-tetrazolium salt, tetrazolium bromide, thiazolyl blue tetrazolium bromide, 3-[[>]]4,5-dimethylthiazol-2-yl[[!]]-2,5-diphenyltetrazolium bromide, Nitro Blue Monotetrazolium Chloride, p-Nitro Blue Tetrazolium Chloride, ~~Nitro blue tetrazolium chloride~~, 2,2'-di-nitrophenyl-5,5'-diphenyl-3,3'-(3,3'-dimethoxy-4,4'-diphenylene)ditetrazolium chloride, Neotetrazolium chloride, 2,2',5,5'-Tetraphenyl-3,3'-(p-diphenylene)-ditetrazolium chloride, Nitrotetrazolium Violet; ~~Thiazolyl blue, tetrazolium blue chloride~~, 3,3'-[[>]]3,3'-dimethoxy(1,1'-biphenyl)-4,4'-diyl]-bis(2,5-diphenyl-2H-tetrazolium)dichloride, ~~Nitro blue tetrazolium chloride~~, o-Tolyl Tetrazolium Red, sodium 3'-[1-[(phenylamino)-carbonyl]-3,4-tetrazolium]-bis(4-methoxy-6-nitro)benzene-sulfonic acid hydrate, p-Nitro Blue Tetrazolium Chloride, Piperonyl Tetrazolium Blue, p-Tolyl Tetrazolium Red, Thiocarbamyl nitro blue tetrazolium chloride, 2,2'-di-p-nitrophenyl-5,5'-di-p-thiocarbamylphenyl-3,3'[3,3'-dimethoxy-4,4'-biphenylene]-ditetrazolium chloride, Tetranitroblue tetrazolium chloride, 1,3,5-triphenyltetrazolium, Tetrazolium Red, 2,3,5-triphenyltetrazolium chloride), Tetrazolium violet, Violet Tetrazolium, 2,3,5-Triphenyl-2-H-tetrazolium chloride, 2,5-diphenyl-3-[~~alpha~~]-naphthyl]-tetrazolium chloride, 2,5-diphenyl-3-[1-naphthyl]-2H-tetrazolium chloride, [[V]]veratryl tetrazolium blue, 4-[3-(4-iodophenyl)-2-(4-nitrophenyl)-2H-5-tetrazolio]-1,3-benzene disulfonate, and 2,2-bis(2-methoxyl-4-notro-5-sulfophenyl)-2H-tetrazolium-5-carboxanilide.

Claim 13 (original): A kit of claim 9, wherein said tissue or cell sample is selected from the group consisting of normal mammalian tissue or cell, pathologic mammalian tissue or cell, neoplastic tissue or cell, vegetable, microorganism, and parasite.

Claim 14 (original): A kit of claim 9, wherein said neoplastic tissue or cell selected from the group consisting of carcinoma, sarcoma, leukemia, or lymphoma.

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Claim 15 (original): A kit of claim 9, wherein said neoplastic tissue or cell is selected from the group consisting of acute lymphocytic leukemia, acute myelocytic leukemia, acoustic neuroma, adenocarcinoma, angiosarcoma, astrocytoma, basal cell carcinoma, bile duct carcinoma, bladder carcinoma, bone originated tumor, bone sarcoma, brain tumor, breast cancer, bronchogenic carcinoma, carcinoma, cervical cancer, chondrosarcoma, chordoma, choriocarcinoma, chronic lymphocytic leukemia, colon carcinoma, craniopharyngioma, cystadenocarcinoma, embryonal carcinoma, endotheliosarcoma, ependymoma, epithelial carcinoma, esophageal carcinoma, Ewing's tumor, fibrosarcoma, glioma, heavy chain disease, hemangioblastoma, hepatic carcinoma, hodgkin's lymphoma, leiomyosarcoma, leukemia, liposarcoma, lung carcinoma, lymphangioendotheliosarcoma, lymphangiosarcoma, medullary carcinoma, medulloblastoma, melanoma, meningioma, mesothelioma, multiple myeloma, myxosarcoma, neuroblastoma, non-Hodgkin's lymphoma, pancreatic cancer, oligodendroglioma, osteogenic sarcoma, ovarian cancer, pancreatic carcinoma, papillary carcinoma, papillary adenocarcinoma, pinealoma, polycythemia vera, acute promyelocytic leukemia, prostate cancer, rectal cancer, renal cell carcinoma, retinoblastoma, rhabdomyosarcoma, sarcoma, sebaceous gland carcinoma, seminoma, small cell lung carcinoma, squamous cell carcinoma, stomach carcinoma, synovioma, sweat gland carcinoma, testicular tumor, uterus carcinoma, Waldenstrom's macroglobulinemia, Wilms' tumor, and the endothelial cells thereof.

Claim 16 (New): The kit of Claim 11, wherein the succinate dehydrogenase inhibitor is nitropropionic acid.